

21598-53-1 (ENR/EP) IUPAC JUN/26/68
SOURCE CODE: P0/0043/65/028/003/0337/0348

70
69

AUTHOR: Cieraszkiewicz, A.; Sulak, B.

ORG: Laboratory for Induced Electron Emission, Institute of Experimental Physics, P.
Wrocław University (Zakład Wabodzony) Emisji Elektronów przy Katedrze Fizyki
Dowiedzialnej, Uniwersytet Wrocławski)

1,55
TITLE: Effect of oxide and measuring parameters on the decay of photostimulated
(exo)electron emission in vacuum from plastically deformed aluminum (II)
74.57.37

SOURCE: Acta physica polonica, v. 28, no. 3, 1965, 337-342

TOPIC TAGS: plastic deformation, deformation rate, aluminum, electron emission,
oxide, electric field, space charge

ABSTRACT: From considerations relating to the electrically charged walls of micro-chinks in the oxide layer on plastically deformed aluminum in vacuum, a dependence between the decay constant of the first component and the measuring parameters is derived. The steepness ($\operatorname{tg} \alpha$) of the tangent to the curve in a point t near $t = 0$ is considered. It is easily shown that $\operatorname{tg} \alpha \sim \lambda$. The following dependence is derived on the assumption of interaction between the space charge due to the presence of electrically charged chinks and the electrons emitted from the "bottoms" of the chinks:

$$\operatorname{tg} \alpha \sim \frac{D(\bar{\delta}_0 - \bar{\delta})}{\mu} + \lambda_{p=0}$$

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L 22296-66

ACC NM: AP5004615

where D is the thickness of the oxide layer coating the aluminum sample, E_0 —the effective electric field strength within the micro-chink, I—the stimulating light intensity, β —an exponent (less than unity), and $\lambda_{D=0}$ —the decay constant of the first component for $D = 0$. Orig. art. has 1 figure and 23 formulas.
[Author's abstract.]

SUB CODE: //, 20 SUBM DATE: 23Feb63/ ORIG REF: 005/ OTH REF: 001/ Sov REF: 001/

Card 2/2 fv

L 33438-66 EWP(t)/EII IJP(c) JD/AT 11
ACC NR: AF0014319 SOURCE CODE: P0/0045/66/029/004/0523/0531

AUTHOR: Sujak, B.; Gierszynski, A.

ORG: Laboratory for Induced Electron Emission, Institute of Experimental Physics,
Wroclaw University (Zaklad Wzbudzonej Emisji Elektronow przy Katedrze Fizyki
Doswiadczenialnej Uniwersytetu Wroclawskiego)

TITLE: Spectral investigations of photostimulated emission of (exo)electrons in
vacuum from plastically deformed aluminum covered with an oxide layer Part II.
Limiting oxide thickness D_g

SOURCE: Acta physica polonica, v. 29, no. 4, 1966, 523-531

TOPIC TAGS: electron emission, aluminum oxide, ~~deformation rate~~, plastic deformation,
oxide formation, ~~spectral investigation, work function~~ MONOCHROMATIC RADIATION,

ABSTRACT: It has been found that in the case of vacuum and monochromatic light
wavelengths $\lambda \leq \lambda_0$ the following relations hold for the limiting thickness D_g of
an oxide layer covering a deformed aluminium sample:

1) $D_g = a_1 I^{\beta}$, $\beta = 0.143$, I — intensity of the stimulating light,

2) $D_g^2 = a_2 \left(\frac{1}{\lambda} - \frac{1}{\lambda_0} \right)$, $\lambda_0 = 5500 \times 10^{-8}$ cm, $a_3 = 1.4 \times 10^{-15}$ cm³, λ — wavelength of the

stimulating light,

Card 1/2

L 3343B-66

ACC NR: AP6914319

$$3) D_g = a_1 e^E, \quad E = \frac{\Delta U}{d}, \text{ where}$$

E is the accelerating field strength, ΔU is the accelerating voltage between the grid and the sample, and d is the distance between the grid and the sample. Assuming that the electrified fissure model is correct, the maximum energy of (exo)electrons emitted for definite oxide layer thickness D_g has been calculated, according to the derived formula

$$T_{\max} = \frac{hc}{a_2} D_g^2.$$

The T_{\max} values obtained are within the interval $0 \leq T_{\max} \leq 3$ eV, depending on the wavelength λ and the intensity I of the light stimulating the emission. The work function determined, $\phi = 22.25$ eV, has been assigned to electrons emitted from the aluminium base to the transitory oxide-metal layer which is the "bottom" of the fissure-emitting electrons. Orig. art. has: 7 figures and 15 formulas. [Based on author's abstract]

[AM]

SUB CODE: 20/ SUBM DATE: 29Jun65/ ORIG REF: 007/ SOV REF: 002/ OTH REF: 004

Card 2/2 ULR

L 36271-66 IJP(c) AT
ACC NR.AP6014320

SOURCE CODE: P0/0045/66/029/004/0533/0547

70
B

AUTHOR: Gierszynski, A.; Sujak, B.

ORG: Laboratory for Induced Electron Emission, Institute of Experimental Physics, Wroclaw University, Wroclaw (Zaklad Wzbudzonej Emisji Elektronow, Katedra Fizyki Doswiadczałej, Uniwersytet Wrocławski)

TITLE: Spectral investigations of photostimulated emission of (exo) electrons in vacuum from plastically deformed aluminum covered with an oxide layer. Part III. Slope of the decay curve in its initial stage

SOURCE: Acta physica polonica, v. 29, no.4, 1966, 533-547

TOPIC T+GS: aluminum oxide, metal oxide, electron, free electron, electron emission, photoelectric effect, space charge, monochromatic light

ABSTRACT: It has been found that the slope of the decay curve in log N vs t coordinates in the vicinity of t = 0 influenced by the wave-

Card 1/2

L 36271-66

ACC NR: AP6014320

length of the stimulating light. The value of the slope $\operatorname{tg} \alpha$ increases with the increase of the wavelength λ . The dependence of $\operatorname{tg} \alpha$ on the intensity I of white and monochromatic light, as well as on the oxide layer thickness D has been studied for various combinations of the parameters: intensity of the stimulating light I , its wavelength λ , and thickness D of the oxide layer covering the deformed aluminum. In the case of white light it was found that with increasing intensity the slope first decreases and then begins to increase in the high intensity range. The dependences of the slope $\operatorname{tg} \alpha$ and λ , I , and D obtained in the present work, and analogous to those obtained in previous works under the assumption that the initial stage of the decay of the emission from deformed aluminum is controlled by the space charge of electrons which do not get out of the fissures. The results confirm the presumption that the emission of exoelectrons has its roots in the "bottom" of the fissures, which is regarded as a semiconductor layer. It is a photoelectric effect on free electrons in aluminum. The electrons enter the oxide layer contacting the metal, and then are emitted from the transient oxide-metal layer into vacuum. Orig. art. has: 17 figures and 23 formulas. [Based on author's abstract]

[AM]

SUB CODE: 20 / SUBM DATE: 20Jul65 / ORIG REF: 009 /

ns
Card 2/2

GIERSZEWSKI, M.

"Ramy. Obliczenia statystyczne" (Frames. Statistical calculations), by
M. Gierszewski. Reported in New Books (Nowe Ksiazki), No. 15, August 1, 1955

GIERTYCH, M.

Interaction between auxin, kinetin, and citric acid in
relation to apical dominance. Acta soc botan Pol 33
no.2:297-306 '64.

1. Institute of Dendrology, Polish Academy of Sciences,
Kornik Arboretum.

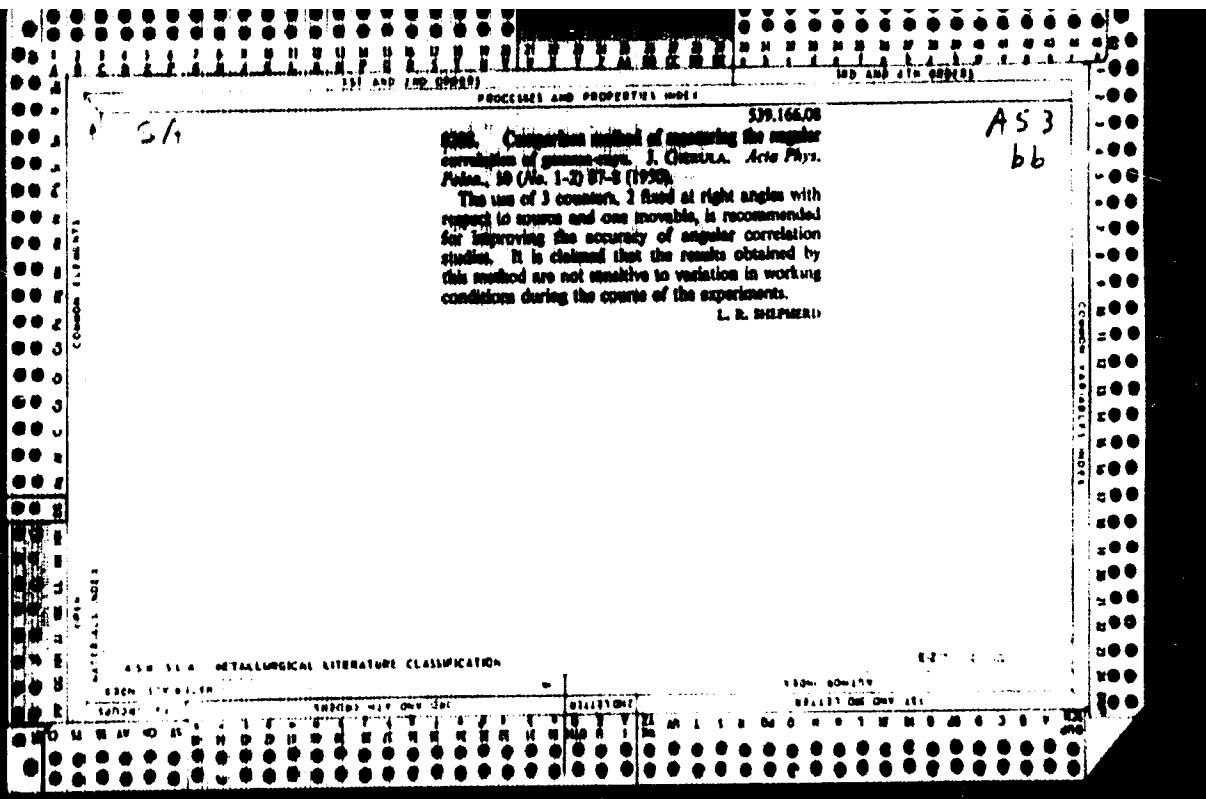
Math. & Natural Sciences

P.I.A.

461 53.24
Gercula J. Technical Methods for Determining the Distribution of
Luminous Flux in Space.

Metody techniczne wyznaczania rozkładu przestrzennego strumienia światłowego. Przegląd Elektrotechniczny No. 9-10-11 1950.
pp. 487-488, 2 figs.

The article deals with directional photometry of lighting sources in order to determine their candle power distribution solid angle. A description is given of a recording instrument designed by the author.



ca

34

Coincidences in Geiger-Muller counters due to single photons Jerzy Ligutka (Mining Acad., Krakow, Poland) *Zeszyty Naukowe Akademii Miedziowej w Krakowie, Seria Fizyka, Wydanie 10, 209-3000 (1970)*. A collimated beam of ThC^{22} γ -rays filtered through 25 mm Pb was directed to a counter and scattered in it. The scattered radiation was registered in a 2nd counter working in coincidence. The 2nd counter was rotated, and a max in the rate of coincidences was observed at 20°. Assuming Compton scattering, the theoretical angular distribution of coincidences could be calcd, and agreed well with the expt. This effect explains why, in the measurement of cosmic radiation, an excess of twofold over threefold coincidences is obtained.

H. Newcomb

GIERULA, J.

"A multidiamond scintillation counter" p. 330 (postępy fizyki, Vol. 4, No. 3, 1953,
Warszawa)

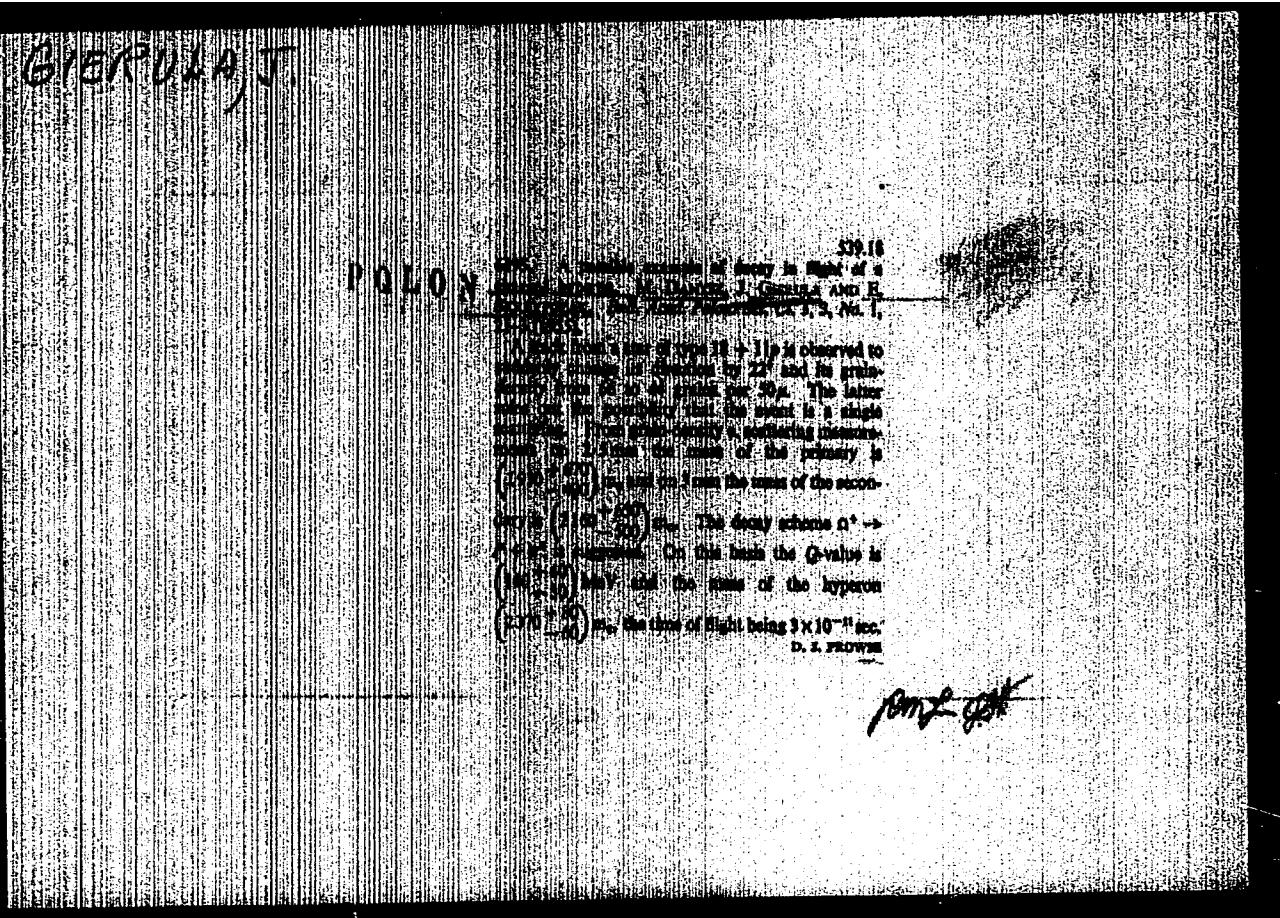
SO: Monthly List of Russian Acquisitions, Library of Congress, March ⁴ 1953, Uncl.

GIERULA, J.

DELAYED DECAY OF HEAVY FRAGMENTS EJECTED
FROM COSMIC RAY STARS. P. Gierula, M. Danzer, and
J. Gierula (Inst. of Nuclear Physics, Poland). Nuovo cimento (9)
11, 618-44 (1954) May. (in English).

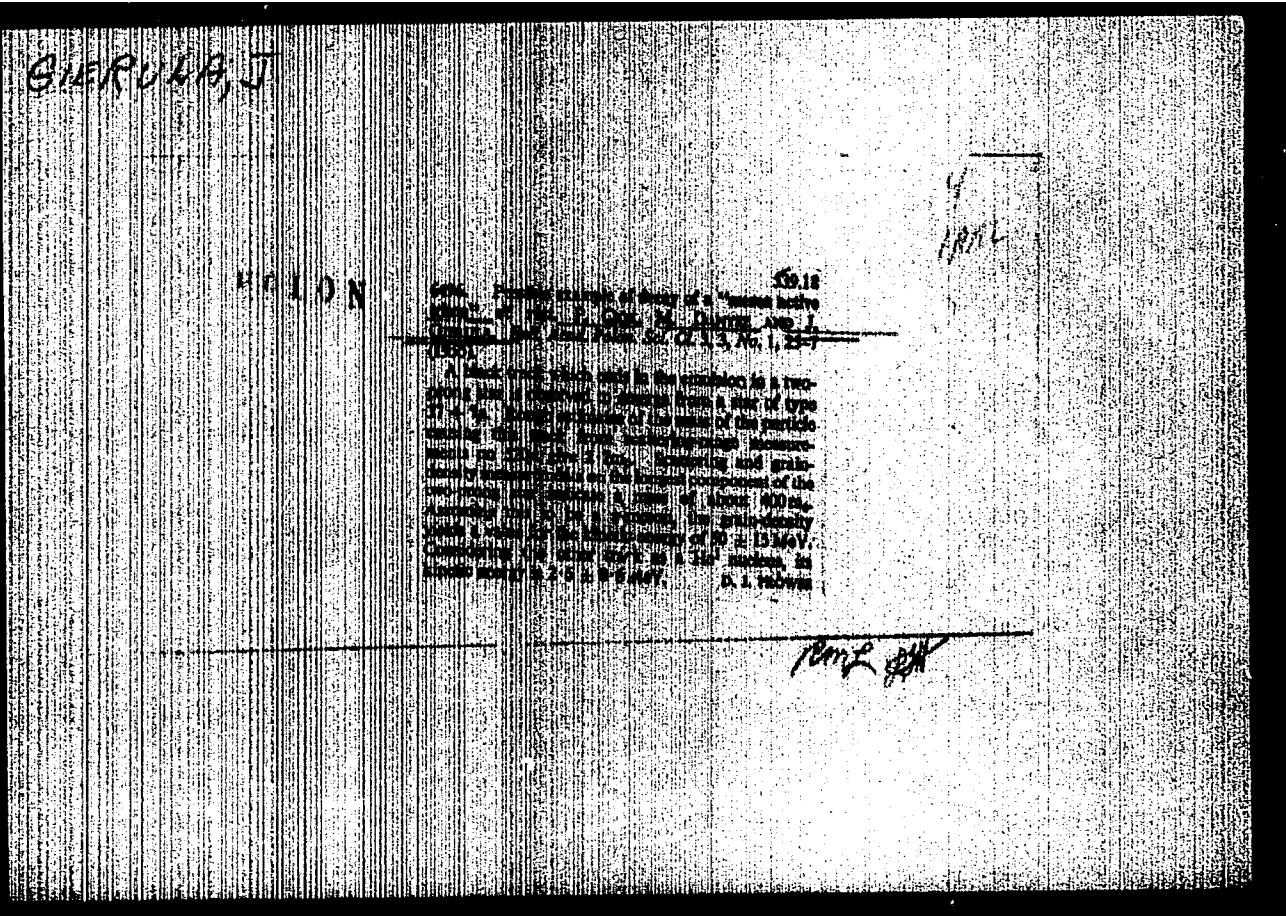
Data concerning seven cases of production and decay of
unstable nuclear fragments are compared, and different
interpretations discussed. In all the seven cases the unstable
fragments are produced in interactions the energy of which is
in the range from a few to some tens of Mev and which
correspond to more or less central collisions of a neutral
or singly charged particle with a heavy nucleus in the
emulsion. The life time of the unstable fragments is longer
than 10^{-11} sec. The evaluation of the total energy released
in their decay is consistent with a unique Q value of 178 Mev
but not with the value of 140 Mev. Energy distribution
among the charged secondaries shows a marked nonuniformity.
In the majority of cases no mesons are observed to be
emitted among these secondaries. Considering the two
modes of decay of a V₁ particle within the nucleus, the
mesonic and non-mesonic decay, all the discussed features
of the seven cases support the bound V₁ hypothesis. (auth)

10-28-54
PNZ



"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515020014-3



APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515020014-3"

GIERULA, J.

Methods of the scintillation gamma-ray spectroscopy. p. ¹⁴
(Pokroky Matematiky, Fysiky A Astronomie, Vol. 2, n. 1, 1957. Praha,
Czechoslovakia)

SO: Monthly List of East European Accessions (EWAL) LC, Vol. 6, no. 10, October 1957. Uncl.

19
Nuclear-nucleus interaction with energy greater than 10^{14}
e.v. (L. Lata, M. Dziewny, J. Gierula, A. Jurak, M. Mic-
sowicz, J. Pernicki, L. Wlodek) (Institute of Nuclear
Research, Warsaw). (See entries 1, 1409-15, 1967).—An
event of very high energy of 3.3×10^{14} e.v. was discovered
in a stack of emulsion irradiated at high altitudes.
Allen I. Cohen

10
P-3c (2)
K-3d

Ron L

POLAND/Nuclear Physics - Elementary Particles

C-3

Abs Jour : Ref Zhur - Fizika, No 4, 1959, No 5115

Author : Filipkowski A., Gierula J., Zielinski P.
Inst : Institute of Nuclear Research, Warsaw, Poland
Title : Survey of the Hyperfragment Experimental Data

Orig Pub : Acta phys. polon., 1957, 16, No 1-2, 139-150

Abstract : From the 120 decays of hypernuclei known in the literature, 72 decays are chosen that are known to be without any doubt. On the basis of an analysis of these decays, certain statistical conclusions are drawn relative to the generation, decay, binding energy, structure, and lifetime of hypernuclei. Tables are given that facilitate the determination of the binding energy of a Λ hyperon in light hypernuclei.

Card : 1/1

POLAND/Nuclear Physics - Cosmic Rays

0-7

Abs Jour : Ref Zhur - Fizika, No 4, 1959, No 5266

Author : Gierula J.

Inst : -

Title : Collision of a Nucleon with Energy of Approximation 3×10^{14}
ev with a Nucleon in Photoemulsion

Orig Pub : Postepy fiz., 1958, 9, No 1, 91-93

Abstract : A photograph of a nuclear star is presented, observed during
the exposure of a stack of emulsions.

Card : 1/1

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515020014-3

GIERULA, I.

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515020014-3"

P/046/60/005/011/012/018
D249/D303

AUTHORS: Gierała, J., Męsowicz, M., and Zieliński, P.

TITLE: Double maximum angular distributions in high energy
nuclear collisions

PERIODICAL: Nukleonika, v. 5, no. 11, 1960, 786

TEXT: Abstract - Report No. 146/VI (IBJ - Institute of Nuclear Research, PAS). A detailed statistical analysis of the shape of the angular distribution of secondary particles generated in 65 nuclear collisions for primary energies higher than 10^{12} eV has been presented. The double maximum shape of the distribution (in the coordinate $\log \tan \theta$) is a general feature of the events with a high degree of anisotropy of secondaries in the CM system. It has been found that the shape of the angular distribution is in agreement with the predictions of the two-center model of multiple meson production both for nucleon-nucleon and nucleon-heavy nucleus collision. A new parameter D, which is a measure of the deviation from the normal shape of the distribution towards the two-center

P/046/60/005/011/012/018

Double maximum angular distributions .. D249/D303

distribution and also a coordinate convenient for visualizing this deviation, have been introduced. [Abstractor's note: Full version]. ✓

ASSOCIATION: Cosmic Ray Department, Institute of Nuclear Research,
Cracow; General Physics Department, School of Mining
and Metallurgy, Cracow (J. Gierula, and M. Mięsowicz)
Cosmic Ray Department, Institute of Nuclear Research,
Warsaw; Physics Department, University of Warsaw,
Warsaw (P. Zieliński)

Card 2/2

AUTHORS: Gierula, J., Miesowicz, M.,
Zielinski, P.

P/045/60/019/01/008/008
B018/B000

TITLE: Statistical Significance of Double Maximum Angular Distribution
in High-energy Jets

PERIODICAL: Acta Physica Polonica, 1960, Vol 19, Nr 1, pp 119-121 (Poland)

ABSTRACT: This is a letter to the editor. It was found that the angular distribution of secondary particles emitted in collisions of high-energy nucleons with nucleons or nuclei have the characteristic shape of two symmetric maxima in the coordinates dN/dx versus $\log \tan \Theta_1$ (Θ_1 denoting the angles between the direction of the secondary particles and the primary direction of the bombarding nucleon). On the other hand the hydrodynamic theories predict Gaussian distributions. For an explanation the authors introduced the so-called two-center model. The analysis was made on 56 jets. The two-center model allows to explain the distribution to be a superposition of two separate Gaussian curves. It turned out that the two maxima could be observed only for dispersions greater than 0.6. The authors therefore divided the jets in two classes: 21 events with dispersion smaller than 0.6 and 35 events with the same quantity greater than 0.6 (Fig 1). From table 1 it follows that the existence of the double-maximum angular distribution may be regarded as statistically well

Card 1/2

Statistical Significance of Double Maximum Angular
Distribution in High-energy Jets

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B018/B000

established. Thus, the two-center model proved to be a convenient hypothesis. The authors thank Professor N. Dobrotin for having sent the angular distributions of jets from collaborating laboratories, and they also express their gratitude to Dr. D.H. Perkins for the material from the H.H. Wills Laboratory, Bristol. There are 1 figure, 1 table, and 7 references, 2 of which are Soviet.

ASSOCIATION: Institute of Nuclear Research Kraków, and Warszawa General Physics
Department, School of Mining and Metallurgy, Kraków

(V)

SUBMITTED: February 22, 1960

Card 2/2

S/058/62/000/010/028/093
A061/A101

AUTHORS: Gierula, Jerzy, Hołyński, Roman, Mięsowicz, Marian

TITLE: Interactions of nucleons of energies higher than 10^{12} ev with heavy photoemulsion nuclei

PERIODICAL: Referativnyy zhurnal, Fizika, no. 10, 1962, 31, abstract 10B244
('Rept. Inst. badań Jądrow. PAN', 1961, no. 291/VI, 7 pp., illust.,
English; summaries in Polish and Russian)

TEXT: The angular distributions of secondary particles of 14 showers of primary energies higher than 10^{12} ev and characterized by large evaporation and high multiplicity ($N_h > 8$, $n_s > 40$) have been investigated. A very clear double-humped angular distribution has been established in central collisions of nucleons with heavy nuclei. This effect grows constantly in proportion to the anisotropy increase of the angular distribution. In showers, in which the narrow and the broad cone are completely separated, asymmetry is observed in the number of particles and in the distribution shapes of these cones. These facts can be

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Interactions of nucleons of...

S/053/62/000/010/028/093
A061/A101

explained by the two-center model, if account is taken of secondary interactions between particles emitted by a "slow" center and the target nucleus.

[Abstracter's note: Complete translation]

Card 2/2

GIERULA, J.; HOLYNSKI, R.; MIESOWICZ, M.

Interactions of nucleons with heavy nuclei of photographic emulsions at energies higher than 10^{12} eV. Acta physica Pol 22 no.4:329-334 0 '62.

1. Institute of Nuclear Research, Laboratory of High Energy Physics, Krakow Department, Krakow, and 2d Department of Physics, Academy of Mining and Metallurgy, Krakow.

GIERULANKA, Danuta

Roman Ingarden. Nauka Polska 10 no.1:93-97 Ja-F '62.

1. Uniwersytet Jagiellonski, Krakow.

GIERULAXX, J.

JANUARY 2.
21(1)

PLATE I BOOK EXPLOITATION

RUE/1911

International Conference on Cosmic Radiation. Budapest. 1956.
 International Conference on Cosmic Radiation. Organized by the
 Hungarian Academy of Sciences. Budapest. 1957. 167 p.
 300 copies printed.

Submitting Agency: Magyar Tudományos Akadémia

Mr.: E. Pogány, and A. Somogyi

This report is intended for geophysicists concerned with
 cosmic radiation.

The paper read at the planetary sessions of the
 conference contains some of the problems dealt with in the nuclear
 conference. This report contains the six papers dealing with
 extensive air showers and the program of several
 new gamma-ray experiments planned for the International Geophysical
 Year. Short reports are followed by references to the
 literature in the field of cosmic radiation who attended the
 conference are: K. L. Andronikashvili, N. A. Dobrovolski, I. I.
 Gavrilov, S. I. Mikolajczyk and S. M. Verner. The proceedings are
 available in English, German and Russian without parallel transla-
 tion. Date 1958.

RUE/1911

International Conference (Cont.)
 5. Prediction of a High Energy Neutron Shower With an
 Estimated Angular Spread

FIFTH SESSION

- 1. Palićević, Aij. J. Glazebrook, and P. Ziegler. Survey of
 New Experimental Data on the Decay of the Meson. Some Heavy
 Mesons. G. J. C. Cheek, H. Lin, and L. C. Young. Some Heavy
 Mesons. Particles Observed With a Multistage Cloud
 Chamber. 172
- 2. McMillan, K. H., and R. E. Mayer. Some Remarks on the
 Possible Ground State of the C-Meson. 177
- 3. Fermi, V. New Measurements of the Life Time of
 Mesons From Atomic Absorption Using a Graphite Absorber
 and Mesons From Nuclear Reactions. 178
- 4. Fermi, V. and C. M. Wilson. On Pair Creation
 and Nuclear Reactions. 184
- 5. Kise, D. Measurements of the Life Time of Λ -Mesons
 in an External Field. 185
- 6. Kise, D. Measurements of the Life Time of Λ -Mesons
 in an External Field. 185

CARD 5/6

COUNTRY : Poland
CATEGORY : Forestry, Forest Management
ABS. JOURN : RZbBiol., No. 14 1959, No. 63221
AUTHOR : Giermazyński, Tadeusz
LST. :
TITLE : The Variability of Variation Indices of Trees in
Forests Stand Under Mountain and Plain Conditions
(Preliminary Report)
ORIG. PUB. : Sylwan, 1956, No. 3, 10-13
ABSTRACT : Variability of the following was studied in three
experimental areas: diameter at breast height and at
the middle of the stem, height, species number, form
coefficient, crown extension and volume ofbole (Poland).
Volume of bole turned out to be most variable (coefficient
of variability of 30 %), and the form coefficient was
least variable (coefficient of variability of 5 %).
The variability of variation indices according to degree
of thickness was lower than in total mass of the stand.
The largest difference in variability of variation
indices according to degree of thickness as compared
with variability in total mass of the stand appears in
Cora:

COUNTRY :
CATEGORY :
ABBR. JOUR. : RZhBiol., No. 14
AUTHOR : 1959, No. 63221
NAME :
TITLE :
ORIG. PUB. :
ABSTRACT : the following order: volume of bole, diameter at middle of stem, and height. The smallest divergence is observed for specific number and form coefficient. Substantial differences in nature of variability of valuation indices in mountain and plain plantations are not observed. A. Kavzay

CARD:

2/2

-17-

GIERUSZYNSKI, THADEUSZ

K-3

POLAND/Forestry - Forest Management.

Res. Inst. : Arthur - Ziel., Wroclaw, Poland, 1953, 91 p.

Author : Gieruszynski, Tadeusz

Inst. Title : Structure and Growth Variability in Spruce Plantations
Under Different Ecological Conditions (Poland).

Ori. publ. : Sylwia, Lata 1953, Nr. 3, 1953.

Abstract : No abstract.

Card 1/1

- 21 -

GIERUSZYNKI, T.

Once more on inadmissible forms of criticism. p. 71

SYLWAN (Wydział Nauk Leśniczych i Lesnych Polskiej Akademii Nauk i Polskie
Towarzystwo Lesne) Warszawa, Poland. Vol. 103, no. 3, Mar 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 9, September 1959.
Unci.

GIERUSZYNSKI, Tadeusz, professor

Centre for Forestry Research, Review Pol Academy 6 no.1:69-71
Ja-Mr '61.

1. Head, Center for Forestry Research, The address of the Center:
Krakow, Ojcowska 1.

(Polish Academy of Sciences) (Poland--Research)
(Poland--Forests and forestry)

ALL INFORMATION CONTAINED, HEREIN, IS UNCLASSIFIED
DATE 09-24-2001 BY SP/SP

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and contains no classification information. It is being released
as it is in the public domain.

All information contained herein is unclassified. It was received in 1986
and contains no classification information. It is being released
as it is in the public domain.

GIERYNG, Roman

Post-embryonal development of the central nervous system of
Diptera . Part 1. Ann. Univ. Lublin sect. D 19:377-393 '64.

1. Katedra i Zaklad Biologii Ogolnej, Wydzial Lekarski AM
w Lublinie (Kierownik: doc. dr. Wanda Stojalowska).

GIERZYNSKA, Monika, mgr., inż.

Analysis of factors influencing the durability of forging dies.
Mechanik 34 no.1:24-29 '62.

1. Politechnika Częstochowska.

Giese, F.

Maintenance of artificial grindstones. p. 214. PAPIR A CILICSA.
(Ministerstvo lesu a drevarskeho prumyslu) Praha. Vol. 5, no. 10,
Oct. 1954.

SOURCE: EFAL - LC Vol. 5 No 10 Oct. 1956

Giese, E.

Maintenance of artificial grindstones. p. 137. FAVIP A ČEMIČKA.
(Ministerstvo lesu a drevarskeho prumyslu) Praha. Vol. 3, no. 11,
Nov. 1954.

SOURCE: EEAL - LC Vol. 5 No. 10 Oct. 1956

GEM POLYKIBITZ, E.

Kleszczyńska I., Stanowski, L., Jisiek, A., Sutwiński, L., Wilkon, R.
Lampert, S., Józek, K., Pebrzynska, J.
Miejskiego Zakład badan serca, Krakow. *Niewydolność wieńcowa insufficiency
and heart infarct from the social - clinical and statistical points of view
Arch. Pol. Med. 1971, No 2 (21-23) Graphs 2 Tables 5

Coronary circulation disorders appear primarily in occupations with a predominant
factor of mental work but also in occupations, subject to harmful environmental
influences resulting from an abnormal mode of living and working. These influences,
disturbing the higher function of the nervous system, are important
causal factors in coronary disease.

See: "Acta Cardiol. Vol. 1, No. 3, section III, February 1971,

MARECKI, Jacek, dr inz.; GIESZCZYKIEWICZ, Stefan, mgr inz.

Economic scope of heat supply in centralized production by
small heating and power stations. Gosp paliw 11 no.8:288-282
'63.

I. Politechnika, Gdańsk.

GIETKA, Jan.

Poland/Pharmacology. Toxicology. Hormones.

V-8

Abs Jour : Ref Zhur-Biol., No 6, 1958, 28168.

Author : Gietka Jan.

Inst : Not given.

Title : Local Therapy of Rheumatic Diseases with
Hydrocortisone.

Orig Pub : Przegl. lekar, 1957, 13, № 6, 175-180.

Abstract : No abstract.

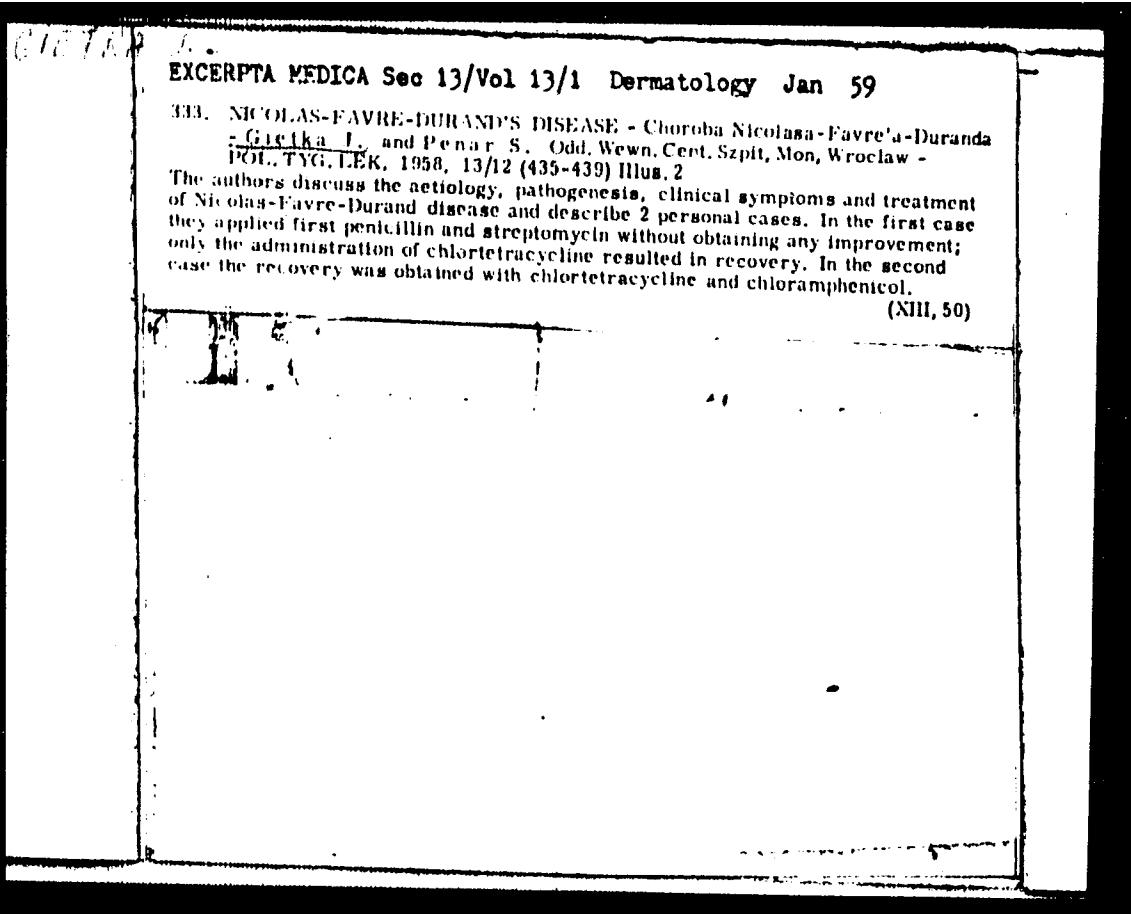
Card 1/1

EXCERPTA MEDICA Sec 19 Vol 2/5 Rehabilitation May 59

1081 Morton's metatarsalgia Choroba Mortona (metatarsalgia). GIEKA J. Centr. Parady. Przeciwnieumat., Warszawa *Wiad. lek.* 1958, 11/8 (345 - 350)

The pathology of Morton's metatarsalgia is briefly discussed on the basis of investigations by various authors appearing in the literature up to 1956. The present author sees the source of this disease in many conditions such as neuromas, local ischaemias, arthrosis of the metatarso phalangeal joints, rheumatoid arthritis, and gout. Observations on 20 cases of Morton's metatarsalgia are given, and a variety of symptoms reported. In this series only conservative treatment was applied using local 2% procaine injections (in 13 cases) or 2% procaine injections with 25 mg. cortisone acetate weekly (7 cases). Complete relief from pain in 17 cases is reported.

Wozny - Poznan



GIRETKA, Jan

Nocturnal acroparesesthesia of the upper extremities. Polski tygod.
lak. 13 no.17:631-636 28 Apr 58

l. (Z Oddz. Wewn. Centr. Szpitala M.O.M.; kier. prof. dr med.
Mieczyslaw Kedra i Centr. Poradni Przeciw reumatycznej w Warszawie
kier.: dr med. Halina Znajewska-Zarembina) adres: Warszawa, Centr.
Szpital MOB, ul. Koszykowa.
(PARESTHESIA,
acroparesesthesia (Pol))

GIRETKA Jan (Warszawa, ul. Koszykowa 78. Szpital MON, oddz. Wewn.)

Lofgren syndrome. Polski tygod. lek. 13 no.42:1622-1626 20 Oct 58.

l. (Z Oddz. Wewn. Centr. Szpitala MON; kier. nauk: prof. dr. med. M. Kedra)

(LYMPH NODES, dis.
Lofgren synd. (Pol))
(ERYTHEMA NODOSUM
same)

FY 1987 PTA MEDICA Sec 6 Vol 13/2 Internal Med. Aug. 80

4859. WEBER-CHRISTIAN SYNDROME (PANNICULITIS NODULARIS FEBRILIS RECIDIVANS NONSUPPURATIVA, PANNICULITIS RECIDIVANS) - Zespół Webera-Christiana. (Panniculitis nodularis febrilis recidivans nonsuppurativa, panniculitis recidivans) - Gietka J., Oczkowski S. and Grabowski T. Warszawa - POL. ARCHE MED. WEWNĘT. 1958, 28/3 (377-395) Illus. 8

Three cases are described. Panniculitis recidivans is a syndrome induced by an allergic reaction to various factors, similar to the one appearing in rheumatic disease. In the 2nd and 3rd case the women patients had articular pains; in the 1st and 3rd case an acute inflammation of the naso-pharyngeal cavity was preceded by an appearance of s.c. nodules. In one woman patient 3 relapses of the disease appeared in the course of 20 yr. In this case a rapid improvement was obtained after the application of ACTH and cortisone. The 1st and 3rd case were classified as Weber-Christian syndrome, and the 2nd case was defined as Rothmann-Makai's syndrome. A great similarity between Weber-Christian's syndrome and erythema nodosum and Bazin's erythema induratum was noted. A histopathological examination is necessary in every case of nodular lesions in the s.c. tissue. A certain number of cases of Weber-Christian syndrome is erroneously diagnosed as non-typical erythema nodosum or erythema induratum.

LJETKA Jan; GRABOWSKI, Tadeusz

Recurrent hyperbilirubinemia following viral hepatitis. Polski tygod.
lek. 14 no.27:1237-1243 6 July 59.

1. (Z Oddz. Chorob Wewn. Centralnego Szpitala M. O. N; kier: prof.
dr med. Mieczyslaw Kedra).

(HEPATITIS, INFECTIONS, compl.) (BILIRUBIN, blood)

GIETKA, Jan; KOZIOWSKI, Piotr

Posterior cervical syndrome of Barre-Lieou. Polskie arch.med.
wewnetrz. 30.1:65-75 '60.

1. Z Oddz. Wewn. II Centralnego Szpitala Klinicznego W.A.M.
Kierownik: doc.dr.med. S. Bober. Z Wojewodzkiej Poradni Prze-
ciwreumatycznej w Warszawie. Dyrektor: dr.med. H. Znajewska-
Zarembina. Z Pracowni Radiologicznej II Centr. Szpit.Klin.
W.A.M. Kierownik: dr.med. A. Kaczurba.

(SPINE dis.)

(SYMPATHETIC NERVOUS SYSTEM dis.)

GIELKA, Jan

Therapy of articular rheumatism with butazolidine (according to observations of 98 patients.). Polski tygod.lek. 15 no.19:714-718 9 My '60.

1. Z Oddzialu Chorob Wewnetrznych 2 Centralnego Szpitala Klinicznego WAM w Warszawie; i z Wojewodzkiej Poradni Przeciwreumatycznej; kierownik: dr. med. Halina Znajewska-Zarembina.
(PHENYLBUTAZONE ther.)
(ARTHRITIS RHEUMATOID ther.)

CZAPLICKI, Sylwester; GIETKA, Jan

Complications in glucocorticoid and ACTH therapy. Polskie arch.
med. wewn. 30 no.6:771-772 '60.

l. Z Oddz. Chorob Wewn. 2 Centr. Szpitala Klin. WAM. Kierownik:
prof. dr M.Kedra, pozniej doc. dr S.Bober
(ADRENAL CORTEX HORMONES toxicol)
(CORTICOTROPIN toxicol)

GIETKA, Jan; KRZAKOWSKI, Zenon

Acute articular rheumatism in adults following tonsillitis.
Polski tygod. lek. 16 no. 52:2015-2019 25 D '61.

l. Z Oddzialu Chorob Wewnetrznych 2 Centralnego Szpitala Klinicznego
WAM w Warszawie; kierownik naukowy: prof. dr med. St.Bober.
(TONSILLITIS compl) (RHEUMATIC FEVER etiol)

POLAND

ZOBER, Stanislaw, HOUSMANOWA-PETKOWSKA, Irena, and HANIA, Jan; Chair and Clinic of Internal Diseases (Instytut i Klinika Chorob Wewnętrznych), Second Central Clinical Hospital (2 Centralny Szpital Kliniczny), WAM [Wojskowa Akademia Medyczna, Military Medical Academy] (Director: Prof. dr. med. Stanislaw ZOBER) and the Neurologist Clinic (Klinika Lekarska neurologiczna), AM [Akademia Medyczna, Medical Academy] (Director: Prof. Dr. med. Irena HOUSMANOWA-PETKOWSKA).

"Coexistence of Paroxysmal Paralysis with Hypothyroidism. Case Report."

Warsaw, Polski Tygodnik Lekarski, Vol. 16, No. 27, October 1991, pp. 791-792.

Abstract: [Authors' English summary] Authors report a case of a 40-year old man with recurring, periodic, paroxysmal attacks of paralysis, which became more acute and frequent during hypothyrodesis developed. Achievement of euthyroxine reduced the acuteness and frequency of attacks, and no paroxysms were noted during hypothyrodesis. The authors discuss the relationship between periodical paralysis and hypothyroidism. The 26 references contain one in Polish, two in German, and the others in English.

1/1

BARANSKA, Wanda; GIETKA, Jan

Studies on the effect of butazolidine on thyroid morphology
in the rat. Reumatologia (Warsz.) 2 no.1:55-67 '64.

1. Z Zakladu Histologii i Embriologii Akademii Medycznej w
Warszawie (Kierownik: doc. dr med. K. Ostrowski) i z Kliniki
Chorob Wewnetrznych 2 C. Szpitala Klin. Wojskowej Akademii
Medycznej w Lodzi (Kierownik: prof. dr med. S. Bober).

SIEKA, Jan, KILAKOWSKI, Zenon

H.p. joint changes consecutive to the treatment of chronic
prolongive rheumatism with adrenal cortex hormones. *Reumatologia*
(Warsz.) 2 no. 2 243-249 '64.

J. J. Katedry i Kliniki Chorob Wewnętrznych, 2 Centr. Szpital
Kliniczny Akademii Medycznej w Warszawie (Kierownik: prof.
dr med. F. Weber).

GIETKA, Jan; KRZAKOWSKI, Zenon

Clinical and therapeutic aspects of Weber-Christian syndrome.
Pol. tyg.lek. 19 no.6:216-219 3 F'64

1. Z Katedry i Kliniki Chorob Wewnętrznych 2 Centralnego
Szpitala Klinicznego WAM w Warszawie; kierownik: prof.dr.
med. S.Bober.

*

Gibson, C. J.; Mihalek, J. J.; MERA - India

Immunoprecipitation and antineuraminidase reactions in the presence of patients with viral hepatitis. Acta Virol. 19 no. 10: 53-59
(1975).

Author(s): T. Iwaki (hon. lektor) dr med. etr. z Centralnego Instytutu
Badań i Doskonalenia Akademii Medycznej w Warszawie (kierownik: prof.
dr hab. med. A. K. Wójcikiewicz).

J. LIGEJ, M. Laster; G. E. Jan

A case of rheumatic fever with multi organ damage in an adult
person. vol. typ. lek. 19 no.24.920-921 8 de '94.

1. Kliniki chorób Wewnętrznych 2 Centralnej Szpitala
Klinicznego i Akademii Medycznej (kier. unik. prof.
dr r. d. i. Bolewski).

G.D.R.A., Am.

Effect of short-term administration of cortisone on the sif-
feron production in human fibroblasts. Preliminary results.
Tadeusz Kowalewski, M. Sc., Ph.D.

Institute of Hygiene and Epidemiology, Warsawska 17, Centralne
Szpitale Kliniczne Wojskowej Akademii Medycznej (XI roznikopraf.
dr. med. H. Bober).

GIETKA, Jan

Effect of butazolidin on the gastric mucosa (attempted clarification of the mechanism of ulcer following the administration of butazolidin. II. Behavior of mucopolysaccharides in the gastric mucosa. Pol. arch. med. wewniet. 34 no.5:555-564 '64.

GIETKA, Jan; BAKUNSKA, Hanna

2 cases of Cattan's liver cirrhosis. Wiad. lek. 18 no.8:693-698
15 Ap '65.

1. Z Katedry i Kliniki Chorob Wewnętrznych 2. Centralnego
Szpitala Klinicznego Wojskowej Akademii Medycznej w Łodzi
(Kierownik: prof. dr. med. S. Bober).

GIETKA, Jan; KUZMINSKA, Dorota

Goiter due to butazolidin. Wiad. lek. 18 no.10:857-860 15 My '65.

1. Z Katedry i Kliniki Chorob Wewnętrznych 2. Centralnego Szpitala
Kliniki Wojskowej AM (Kierownik: prof. dr. med. S. Bober).

HARANSKA-PIOTROWSKA, Hanna; GIETKA, Jan; KEYSKO, Tadeusz

Electrophoretic determination of proteins in the synovial fluid and blood serum and of amino acids in the synovial fluid of arthritic forms of rheumatism. *Reumatologia (Warsz.)* 3 no.2:117-125 '65.

U. z Katedry i Kliniki Chorob Rewmatozycznych 2 Centr. Szpital. Klin. Wojskowej AM (Kierownik: prof. dr. med. S. Rober) i z Pracowni Klinicznej 2 Centr. Szpital. Klin. Wojskowej AM (Kierownik: lek. N. Symonowicz).

GIETKA, Jan; KOTLICKI, Piotr

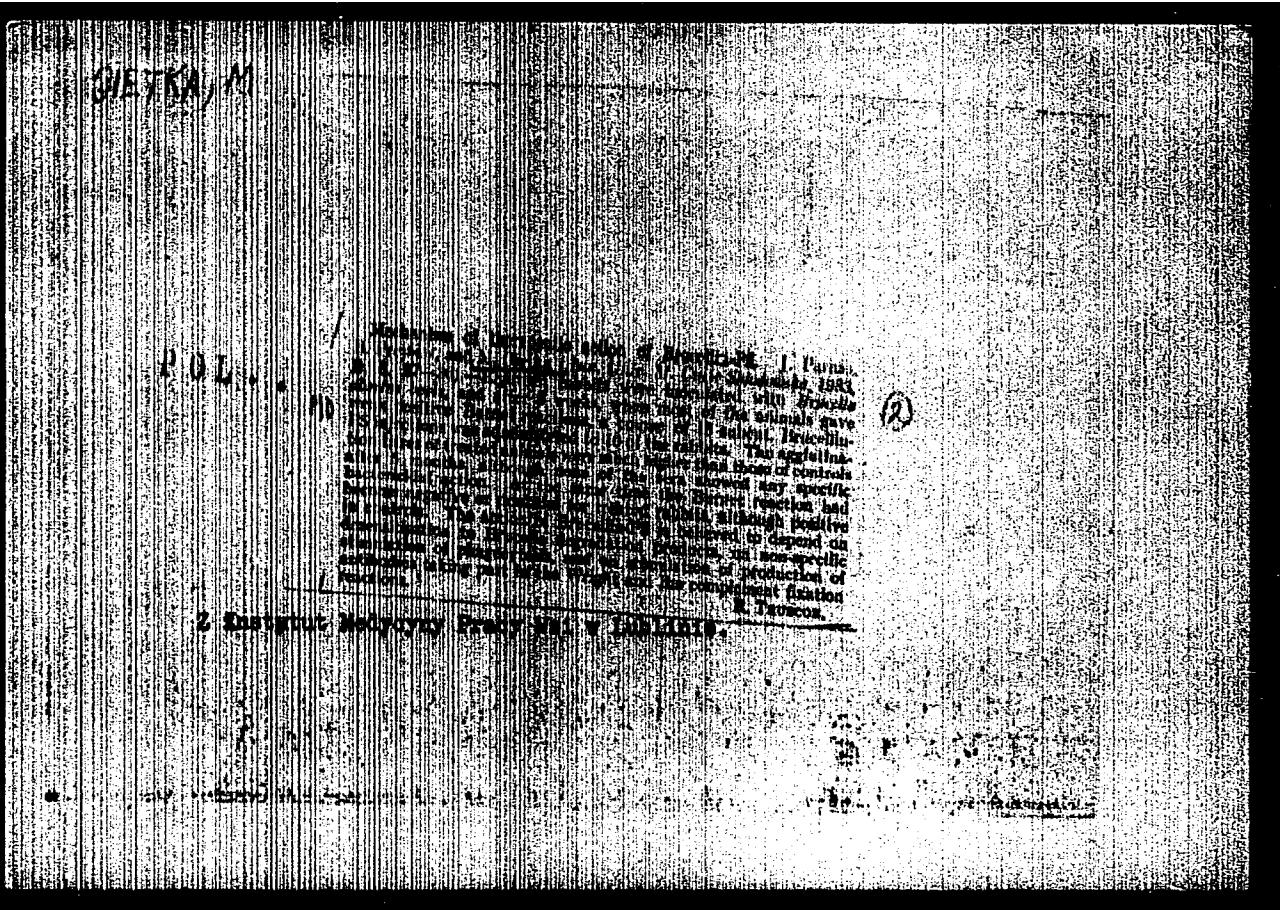
Pain syndrome of the brachial joint in relation to degenerative changes in claviculo-brachial joint. Pol. przegl. med. 29 no.4:
3E1-386 Jl-Ag 106.

z. 7 Katedry i Kliniki Chorób Wewnętrznych i Endokrynologii Szpitala
Klinicznego Wojskowej AM w Warszawie prof. dr. med. T. Robert,
z Wojskowej Poradni Przeciwbombojowej w Warszawie Kierownik:
dr. med. H. Trajewaka-Porecka i z Zakładu Radiologiczno-Centrańskiego
Szpitala Kliniki Wojskowej AM w Warszawie (Prac. wrz. dr. med.
A. Kmitka).

GIFTKA, Jan; M.D., Przysztol

Post-antreptosomal gynaecological clinic inter-faculty
Inst. Med. Lek. 18 no.16:1285-1289 19.8.1985.

I. z Katedry i Kliniki Chorob Wew. I Centr. Szpital klin.
wojskowej AP (Kierownik: prof. dr. med. F. Bober).



GIELKA, Marian; TOMASZEWSKI, Leszek

Fanconi-de Toni-Debre syndrome in a 16 month old girl. Pediat. polska
32 no.7:837-840 July 58.

1. z Kliniki Terapii Chorob Dzieci A. M. w Warszawie Kierownik: prof.
dr med. H. Brokman i z Laboratorium Oddzialu Pediatricznego A. M. w
Warszawie Kierownik: dr med. L. Tomaszewski. Adres: Warszawa, ul.
Dzialdowska 1/3.

(METABOLIC DISEASES, in inf. & child
Fanconi's rachitic synd., case report (Pol))

GIMKO, Marian (Warszawa, ul. Dzialdowska 1/3)

Arthrogryposis multiplex congenita. Pediat. polska 33 no.2:201-204
Feb 58.

l. Z Kliniki Terapii Chorob Dziecięcych A.M. w Warszawie. Kierownik:
prof. dr med. H. Brokman.
(JOINTS, abnorm.
arthrogryposis multiplex, case report (Pol))

GINTKO, Marian (Warszawa, ul. Dmoldowska 1/3)

Recognition of staphylococcal anginas and evaluation of certain associated conditions. Pediat. polska 34 no.3:287-292 Mar 59.

1. Z Kliniki Terapii Chorob Dzieci A. M. w Warszawie Kierownik:
prof. dr med. H. Brokman.

(TONSILLITIS, etiol. & pathogenesis,
micrococcal infect. in child. (Pol))
(MICROCOCCAL INFECTION, in inf. & child.
causing tonsillitis (Pol))

GIELKO, Marian

Observations on the course and therapy of primary tuberculosis in children. Pediat. polska 34 no.11: 1413-1422 '59.

l. z Poradni Przeciwgrusliczej dla Środowiska Warszawy. Kierownik:
dr.med. Z. Kowalski.
(TUBERCULOSIS PULMONARY in inf.& child.)

BROKMAN, Henryk; CHMIELEWSKA, Danuta; GIETKA, Marian; GUTKOWSKA, J.

Effect of tuberculous sera on the growth of staphylococcal strains.
Postepy hig. med. dosw. 16 no.3:597-604 '62.

l. Z Kliniki Terapii Chorob Dzieci AM w Warszawie Kierownik: prof. dr
H. Brokman.

(STAPHYLOCOCCUS) (TUBERCULOSIS)

GIETKA, Marian

Analysis of the etiology of erythema nodosum in children based
on our observations. Gruzlica 31 no.1:1-6 '63.

1. Z Kliniki Terapii Chorob Dzieci AM w Warszawie Kierownik:
prof. dr med. H. Brokman.

(ERYTHEMA NODOSUM)
(TUBERCULOSIS IN CHILDHOOD)
(TUBERCULIN REACTION)

GIETKA, Marian; OKOLSKA, Wanda; ZMUDZKA, Barbara

Bacteriological studies in infections of the urinary system
in children. Pediat. pol. 38 no.2 125-132 '63.

1. Z Kliniki Terapii Chorob Dzieci AM w Warszawie Kierownik:
prof. dr med. H. Brokman i z Laboratorium Zespolu Klinik
Pediatricznych Wydziału Pediatricznego AM w Warszawie
Kierownik: dr med. L. Tomaszewski.

(URINARY TRACT INFECTIONS)
(ESCHERICHIA COLI INFECTIONS)
(PROTEUS INFECTION)
(STAPH INFECTIONS)
(AEROBACTER AEROGENES)
(STREPTOCOCCAL INFECTIONS)
(MYCOSES)

GABLER, Barbara; GIETKA, Marian

Contribution to the prognosis in cases of diseases of the
myocardium and endocardium in infants. Pediat. pol. 38 no.4:
399-403 '63.

1. Z Kliniki Terapii Chorob Dzieci AM w Warszawie Kierownik:
prof. dr med. H. Brokman.
(ENDOCARDIAL FIBROELASTOSIS)
(MYOCARDITIS) (PROGNOSIS)

GIETKA, Marian

Observations on prolonged antibacterial therapy of chronic
and recurrent infections of the urinary tract. Pediat. pol.
38 no.6:537-543 Je '63.

1. Z Kliniki Terapii Chorob Dzieci AM w Warszawie Kierownik:
prof. dr med. H. Brokman.
(URINARY TRACT INFECTIONS) (NITROFURANTOIN)
(SULFONAMIDES)

GIETKA, Marian; SIENIAWSKA, Maria

Difficulties in the differential diagnosis of the early stages
of some collagen diseases. Pediat. pol. 38 no.9:799-806 S '63.

l. Z Kliniki Terapii Chorob Dzieci AM w Warszawie Kierownik:
prof. dr med. H. Brokman.

(ARTHRITIS, RHEUMATOID) (LUPUS ERYTHEMATOSUS, SYSTEMIC)

(DERMATOMYOSITIS) (RHEUMATIC HEART DISEASE)

(DIAGNOSIS, DIFFERENTIAL) (BLOOD CELL COUNT)

(BIOPSY)

GIETKA, Marian; SIENIAWSKA, Maria

Exacerbation of latent and chronic glomerulonephritis in
children. Pediat. pol. 38 no.9:807-810 S '63.

l. Z Kliniki Terapii Chorob Dzieci AM w Warszawie Kierownik:
prof. dr med. H. Brokman.
(GLOMERULONEPHRITIS)

GIETKA, Marian; KOTARBINSKA, Barbara

On some causes of habitual vomiting in infants. Pediat. pol. 38
no.10:869-873 0 '63.

1. Z Kliniki Terapii Chorob Dzieci AM w Warszawie Kierownik:
prof. dr med. H. Brokman i z Zakladu Radiologii Pediatricznej
AM w Warszawie Kierownik: prof. dr med. K. Rowinski.
(VOMITING) (CARDIOSPASM)
(DIAGNOSIS, DIFFERENTIAL)

GILTKA, Marian; GUTKOWSKA, Jadwiga; LANGER, Hanna

Causes of failure in the treatment of staphylococcal infections
in children. Pediat. Pol. 29 no.5:511-518 My '64.

I. Z Kliniki Terapii Dziecięcej Akademii Medycznej w Warszawie
(Kierownik: doc. dr. med. M. Łapacka-Kobierska) i z Laboratorium
Zespołu Klinik Pediatricznych Wydziału Pediatricznego Akademii
Medycznej w Warszawie (Kierownik: dr. med. I. Tomaszewski).

GIETKO, M.; GUTKOWSKA, J.; LANGROWA, H.

Clinical value of the determination of anti-staphylococcal infections in children. Pediat. polska 35 no.4:
385-394 Ap '60.

1. Z Kliniki Terapii Chorob Dzieci A.M. w Warszawie, Kierownik:
prof. dr med. H. Brokman.
(STAPHYLOCOCCAL INFECTIONS diag.)

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Director: ... Director of Central Intelligence
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EXPIRATION DATE 10-2006 //

GIETKO, Marian; SILOMOWNA-WALEJKO, Barbara; STOKOWSKI, Leonard

A case of staphylococcal septicemia with pericarditis. Pediat.
polska 35 no.10:1235-1240 0 '60.

1. Z Kliniki Terapii Chorob Dzieci A.M. w Warszawie, Kierownik:
prof. dr med. H.Brokman i z Zakladu Radiologii Pediatricznej A.M.
w Warszawie, Kierownik: prof. dr med. K.Rowinski.

(SEPTICEMIA in inf & child)

(STAPHYLOCOCCAL INFECTIONS in inf & child)

(PERICARDITIS in inf & child)

GIETKO, M.; GUTKOWSKA, J.; LANGEROWA, H.

On the problem of the diagnosis of staphylococcal pneumonias and
pleurisy. Pediat. polska 35 no.8:877-880 Ag '60.

l. Z Kliniki Terapii Chorob Dzieci A.M. w Warszawie Kierownik:
prof. dr med. H.Brokman
(STAPHYLOCOCCAL INFECTIONS diag)
(PLEURISY diag)
(PNEUMONIA diag)

WROBLEWSKI, W.; GIETNER, M.; DOMOSLAWSKA, Z.; JAKUBOWSKI, A.; BLASZCZYSZYN, M.

Reticuloses X with observations on 3 cases. Pediat. pol. 36 no.7:
743-750 '61.

1. Z Oddzialu Dzieciecego Centr. Szpit. Klin. MSW w Warszawie
Ordynator: prof. dr med. T.Chrapowicki i z Zakladu Radiologii Centr.
Szpit. Klin. MSW w Warszawie Kierownik: doc. dr med. W.Trzetrzewinski.
(RETICULOENDOTHELIOSIS in inf & child)

GIEYSZTOR, Aleksander

Reception of Christianity in Poland during the 10th - 11th
centuries. Nauka polska 8 no.3:19-32 Jl-S '60.

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CIA-RDP86-00513R000515020014-3

RECORDED, 1.

RECORDED, 2. (RECORDED, 1. IS OVERLAPPING)

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RECORDED, 3. (RECORDED, 2. IS OVERLAPPING)

RECORDED, 4. (RECORDED, 3. IS OVERLAPPING)

RECORDED.

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515020014-3"

COUNTRY : Poland
CATEGORY :
ABB. JOUR. : AZKhim., No. 1959, No. 74597
AUTHOR : Tichy, M. and Wielgowska, Z.
TITLE : On the distribution of organic carbon in the surface layer
of the bottom sediments in the Baysko section
of the Marrian lakes. In: "Prace Hydrobiol.", v. 103-104 (1958)
CRIT. PUB. : Polakie Arch Hydrobiol., v. 103-104 (1958)
ABSTRACT : Investigative data on the organic matter in the
bottom surface sediments of Lake Baysko were
reported. Results of organic matter analysis and
the carbon and nitrogen of heterotrophic bacteria
are given. The concentration of CO_2 (ml/g of saturated
water) at the surface was found to be 1.7-19.6
and in the bottom layer up to over 50 m depth,
up to 12.16; losses of organic matter due to
respiration CO_2 concentration of $\geq 10\%$. Data
on the distribution of CO_2 in the water

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515020014-3"

GIEYSZTOR, M.

On a continuous series of lakes. Polskie arch hydrobiol 6:175-187 '59.
(EEAI 9:8)

(Poland--Lakes)
(Poland--Fresh-water fauna)

GIEYSZTOR, M.

On the thermal conditions of the littoral zone of lakes. Polskie
arch hydrobiol 7:171-193 '60. (EEAI 10:3)
(Poland--Lakes)

GIEYSZTOR, Marian

Alfred Litynski, obituary. Polskie arch hydrobiol 11:
Supplements 7-14 '63.

Zygmunt Kozminski, obituary 15-24

Jerzy Wiszniewski, obituary 25-33

BY V. T. ROMA, I.

K. Markov's Studies on the Geography of the Quaternary Period; a book review.

p. 399
Vol. 28, no. 2, 1974
ISSN 0022-216X
USSR

SL: Monthly List of Sci. Russian Acquisitions (F'AL, L), Vol. , no. 12
December 1974

GIGANTESCU, I.

A visit of Professor K. Markov, Soviet geographer, in Poland. p.44.
Geografia Polska. 1951. No. 2. Warsaw. Institute of Geographia.
Instytut Geografii) Warszawa
Vol. 27, no. 2, 1956

No. West European Accessories List Vol. 5, No. 1 Jan. 1956

GIEYSZTOROWA, Irena; KONDRAKCI, Jerzy

Stanislaw Kalesnik's jubilee. Przegl geom 34 no.2:442-444
'62.

GIEYSZTOROWA, Irena

Remarks on the precipitation in the Polish Tatra Mountains.
Przegl geogr 34 no.3:527-540 '62.

GIEZYNSKI, A., mgr., inz.; TYSZAKA, K., mgr., inz.

A visit in Czechoslovakia. Biul inform inst technik nr 9, 24-96 - '81.

GIEYSZTOROWA, Irena, dr. (Warszawa, Krakowskie Przedmieście 30)

Report on a conference concerning college students excursions
in the Tatra Mountains. Czasopismo geograficzne 32 no.4:476-
478 '61.

1. Uniwersytet, Warszawa.

GIFING, S., inz.

What the autogenous crushing is, and is it applied in practice?
Rudar glasnik no. 3:82 '62.

L 12788-66 EWT(1)/T IJP(c) MM/GG

ACC NR: AP5026618

SOURCE CODE: UR/0056/65/049/004/1237/1247

AUTHORS: Gifeysman, Sh. N.; Perlin, Yu. Ye.

ORG: Kishinev State University (Kishinevskiy gosudarstvennyy universitet)

TITLE: Impurity light absorption for arbitrary electron phonon

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 49, no. 4, 1965, 1237-1247

TOPIC TAGS: electron interaction, light absorption, phonon interaction, impurity center, thermodynamic function, Coulomb interaction, ionic crystal

ABSTRACT: The method of arbitrary coupling, previously developed by one of the authors (Perlin, with I. Ya. Ogurtsov, FTT v. 7, 1467, 1965) for the calculation of thermodynamic functions of the impurity-phonon system, is extended in the present article to include the theory of impurity absorption of light. In this method, the spectral admittance of the system in an external spatially-homogeneous electric field is calculated by continual integration along the trajectories. In the zeroth approximation the system is described by a trial Lagrangian in which both the

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L 12788-66
ACC NR: AP5026618

Coulomb and the electron-phonon interactions are imitated by elastic forces. The need for this approach is dictated by the fact that the adiabatic approximation becomes inaccurate when the Bohr frequency of the pure electronic transition and the frequencies of the impurity-active phonons have the same order of magnitude, as is the case for shallow traps of the F-center type in some ionic crystals. The intensity of the no-phonon and one-phonon impurity absorption peaks is derived in first approximation for such traps. The formulas obtained are valid in the case of small heat release and arbitrary electron-phonon coupling. The temperature shift of the impurity absorption lines is also calculated. Orig. art. has: 1 figure, 51 formulas, and 1 table.

SUB CODE: 20/ SUBM DATE: 30Apr65/ NR REF Sov: 009/ OTH REF: 007

HJ
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